

IN THE CLAIMS

1. (previously presented) A reactor servicing platform for a nuclear reactor, the nuclear reactor comprising a reactor pressure vessel positioned in a primary containment and at least one refuel bridge, the primary containment comprising a refueling floor, said servicing platform comprising:

a frame comprising a plurality of interconnected beams;

a support structure attached to said frame;

a floor attached to a top of said frame, said floor comprising a reactor access opening sized to permit access to the reactor pressure vessel; and

at least one auxiliary platform movably coupled to said frame and extending into said access opening, said at least one auxiliary platform movable along a perimeter of said access opening of said floor.

2. (canceled)

3. (canceled)

4. (original) A reactor servicing platform in accordance with Claim 1 wherein said access opening has a circular, elliptical, or polygonal shape.

5. (original) A reactor servicing platform in accordance with Claim 1 further comprising a safety rail extending around a perimeter of said access opening.

6. (original) A reactor servicing platform in accordance with Claim 1 further comprising a safety rail extending around an outer perimeter of said floor.

7. (original) A reactor servicing platform in accordance with Claim 1 wherein said floor comprises at least one floor panel coupled to said platform frame.

8. (original) A reactor servicing platform in accordance with Claim 1 wherein said servicing platform comprises at least one of steel, aluminum, and a thermoplastic and fiber composite material.

9. (withdrawn) A reactor servicing platform in accordance with Claim 1 wherein said support structure is configured to suspend said servicing platform from two spaced apart refuel bridges.

10. (withdrawn) A reactor servicing platform in accordance with Claim 1 wherein said support structure comprises a plurality of wheels sized to engage a crane rail.

11. (original) A reactor servicing platform in accordance with Claim 1 wherein said support structure is configured to engage the refueling floor of the reactor.

12. (original) A reactor servicing platform in accordance with Claim 1 further comprising at least one lifting device movably coupled to said frame, said at least one lifting device movable along a perimeter of said access opening.

13. (previously presented) A nuclear reactor comprising:

a primary containment vessel;

a reactor pressure vessel positioned in said primary containment vessel; and

a reactor servicing platform comprising:

a frame comprising a plurality of interconnected beams;

a support structure attached to said frame;

a floor attached to a top of said frame, said floor comprising a reactor access opening sized to permit access to said reactor pressure vessel; and

at least one auxiliary platform movably coupled to said frame and extending into said access opening, said at least one auxiliary platform movable along a perimeter of said access opening of said floor.

14. (canceled)

15. (canceled)

16. (original) A nuclear reactor in accordance with Claim 13 wherein said servicing platform access opening has a circular, elliptical, or polygonal shape.

17. (original) A nuclear reactor in accordance with Claim 13 wherein said servicing platform floor comprises at least one floor panel coupled to said platform frame.

18. (original) A nuclear reactor in accordance with Claim 13 wherein said servicing platform comprises at least one of steel, aluminum, and a thermoplastic and fiber composite material.

19. (withdrawn) A nuclear reactor in accordance with Claim 13 further comprising at least two refuel bridges spaced apart and positioned above said reactor pressure vessel, said servicing platform support structure engaging said refuel bridges to suspend said servicing platform from two spaced apart refuel bridges.

20. (withdrawn) A nuclear reactor in accordance with Claim 13 wherein said primary containment comprises a refuel floor located above said pressure vessel, said refuel floor comprising a plurality of crane rails, said support structure comprising a plurality of wheels sized to engage said crane rails.

21. (original) A nuclear reactor in accordance with Claim 13 wherein said primary containment comprises a refueling floor located above said pressure vessel, said servicing platform support structure engaging said refueling floor to support said servicing platform above said pressure vessel.

22. (original) A nuclear reactor in accordance with Claim 21 wherein said refuel floor comprising a pressure vessel access opening and a ledge extending circumferentially around said pressure vessel access opening, said servicing platform support structure engaging said ledge to support said servicing platform above said pressure vessel.

23. (original) A nuclear reactor in accordance with Claim 13 wherein said servicing platform further comprises at least one lifting device movably coupled to said frame, said at least one lifting device movable along a perimeter of said access opening.

24. - 35. (canceled)

36. (previously presented) A modular reactor servicing platform for a nuclear reactor, the nuclear reactor comprising a reactor pressure vessel positioned in a primary containment, the primary containment comprising a refueling floor, said servicing platform comprising:

a frame comprising a plurality of interconnected beams;

a support structure attached to said frame; and

a floor attached to and covering said frame, said floor comprising a reactor access opening sized to permit access to the reactor pressure vessel;

said frame, support structure, and floor arranged as a plurality of modular sections that when coupled together form said modular reactor servicing platform, each said modular section comprising at least one of a portion of the frame, a portion of the support structure, and a portion of the floor.

37. (previously presented) A reactor servicing platform in accordance with Claim 36 further comprising at least one auxiliary platform extending into said access opening.

38. (previously presented) A reactor servicing platform in accordance with Claim 37 wherein said at least one auxiliary platform is movable along a perimeter of said access opening of said floor.

39. (previously presented) A reactor servicing platform in accordance with Claim 1 wherein said access opening has a circular, elliptical, or polygonal shape.

40. (previously presented) A reactor servicing platform in accordance with Claim 36 further comprising a safety rail extending around a perimeter of said access opening.

41. (previously presented) A reactor servicing platform in accordance with Claim 36 further comprising a safety rail extending around an outer perimeter of said floor.